

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. This amendment amends claims 23-26, 28, 29, 31-33, and 35 and add new claims 47-53 as follows.

Listing of Claims

1-22 (Canceled)

23. (Currently Amended) A device for scanning and/or recognizing one or more barcodes, comprising:

a laser light source for transmitting laser light;

a rotatable polygonal mirror for reflecting the transmitted laser light;

a number of fixedly disposed flat mirrors for reflecting laser light;

a pick-up element for picking up laser light scattered by a barcode; and

a compact housing to be hand held in which the laser light source, the polygonal mirror, the flat mirrors and the pick-up element are arranged, wherein the device is to be used alternately in hand held mode and fixed mode and the housing is completely constructed from a bottom side which is substantially flat for placement of the housing, a top side, a standing rear wall, a standing front wall and two standing side walls arranged therebetween, and wherein the distance between the standing walls amounts to 1.2-5.5 inches (3-14 cm);

wherein the bottom side of the housing is substantially flat for placement of the housing without a holder and scanning is performed a fixed mode scan pattern or a hand mode scan pattern is cast through said standing front wall only when placed on said bottom side, both scan patterns being cast through one and the same window in the housing.

24. (Currently Amended) The device as claimed in claim 23, comprising:

position determining means arranged in the housing for determining the position of the rotatable polygonal mirror; and

control means which are connected to the position determining means and the laser light source and which switch the laser light source on or off depending on the position

of the rotatable polygonal mirror, wherein ~~dependent depending~~ on the switching on and off an ~~omnidirectional~~said fixed mode scan pattern or a ~~linehand mode~~ scan pattern is cast, ~~both~~ scan patterns being cast through one and the same window in the housing.

25. (Currently Amended) The device as claimed in claim 23, comprising a mirror arranged in the housing and foldable between two positions, in the first position of which a substantially flat front mirror surface of the mirror reflects the laser light incident thereon and in the second position of which a substantially concave rear mirror surface reflects the laser light incident thereon.

26. (Currently Amended) The device as claimed in claim 25, comprising:
folding means arranged in the housing which are connected to the foldable mirror and which fold it the foldable mirror between the two positions; and
operating means arranged partially inside and partially outside the housing which are connected to the folding means.

27. (Previously Presented) The device as claimed in claim 26, wherein a part of the operating means protrudes from the flat bottom side of the housing.

28. (Currently Amended) The device as claimed in claim 26, wherein the folding means comprises an electric motor and the operating means comprises a switch for switching the electric motor on and/or off.

29. (Currently Amended) The device as claimed in claim 26, wherein the operating means comprises an operating member protruding partially through a guide opening in the housing, wherein the operating member can be guided into the housing whereby the folding means carry the foldable mirror into the first position and wherein spring means arranged in the housing urges the operating member partially out of the housing whereby the folding means carry the foldable mirror into the second position.

30. (Previously Presented) The device as claimed in claim 29, wherein the operating member is provided with locking means for locking the operating member with the foldable mirror in the first position.

31. (Currently Amended) The device as claimed in claim 24, wherein the position determining means comprises:

sensor means which detects laser light reflected from the polygonal mirror; and

rotation speed determining means which determine the rotation speed of the rotatable polygonal mirror.

32. (Currently Amended) The device as claimed in claim 23, wherein the rotatable polygonal mirror comprises a central part and mirror surfaces standing from a first side thereof and is provided on the other side with receiving means which receives a drive shaft for rotational driving of the rotatable polygonal mirror.

33. (Currently Amended) A device within a housing for scanning and/or recognizing one or more barcodes, comprising:

a laser light source for transmitting laser light;
a rotatable polygonal mirror for reflecting the transmitted laser light;
a number of fixedly disposed flat mirrors for reflecting laser light;
a pick-up element for picking up laser light scattered by a barcode; and
a mirror foldable between two positions, in the first position of which a first mirror front surface reflects the laser light incident thereon and in the second position of which a second mirror rear surface reflects the laser light incident thereon.

34. (Previously Presented) The device as claimed in claim 33, wherein the first mirror surface has a substantially flat surface and the second mirror surface has a substantially concave surface.

35. (Currently Amended) A device for scanning and/or recognizing one or more barcodes, which comprises a housing in which are arranged:

a laser light source for transmitting laser light;
a rotatable polygonal mirror for reflecting the transmitted laser light;
a number of fixedly disposed flat mirrors for reflecting laser light;
a pick-up element for picking up laser light scattered by a bar code; and
drive means for driving a rotating support member, wherein the polygonal mirror is placed with the outer ends thereof on the rotating support member.

36. (Previously Presented) The device as claimed in claim 35, wherein the ends of the polygonal mirror are fixed at least partially to the rotating support member.

37. (Previously Presented) The device as claimed in claim 35, wherein double-sided tape provided with adhesive means is arranged between the ends of the polygonal mirror and the rotating support member.

38. (Previously Presented) The device as claimed in claim 35, wherein the ends of the polygonal mirror are provided with centering pins which engage round or in the rotating support member and which centre the polygonal mirror relative to the drive means.

39. (Previously Presented) The device as claimed in claim 35, wherein a protruding gripping component is fixed to the polygonal mirror.

40. (Previously Presented) The device as claimed in claim 35, wherein the height-width ratio of the polygonal mirror has a value of about 1 or higher.

41. (Previously Presented) The device as claimed in claim 40, wherein a laser light source adjusting member is fixed to the laser light source, which positions the laser light source in only the horizontal direction.

42. (Previously Presented) The device as claimed in claim 35, wherein the rotatable polygonal mirror is arranged in the vicinity of a first corner of the housing and the fixedly disposed flat mirrors and/or the foldable mirror are arranged in the vicinity of an opposite corner of the housing.

43. (Previously Presented) The device as claimed in claim 23, wherein a resilient holder is arranged around at least a part of the housing.

44. (Previously Presented) The device as claimed in claim 33, wherein a resilient holder is arranged around at least a part of the housing.

45. (Previously Presented) The device as claimed in claim 35, wherein a resilient holder is arranged around at least a part of the housing.

46. (Previously Presented) A method for scanning and/or recognizing one or more barcodes, wherein the device as claimed in claim 23 is applied.

47. (New) The device as claimed in claim 23, wherein said fixed mode scan pattern is an omnidirectional scan pattern.

48. (New) The device as claimed in claim 23, wherein said hand mode scan pattern is a line scan pattern.

49. (New) The device as claimed in claim 23, wherein an omnidirectional scan pattern or a line scan pattern is cast through said window during the use as a hand scanner.

50. (New) The device as claimed in claim 25, wherein said foldable mirror is foldable around a shaft.

51. (New) A device for scanning and/or recognizing one or more barcodes, comprising:

- a laser light source for transmitting laser light;
- a rotatable polygonal mirror for reflecting the transmitted laser light;
- a number of fixedly disposed flat mirrors for reflecting laser light;
- a pick-up element for picking up laser light scattered by a barcode; and

a compact housing to be hand held in which the laser light source, the polygonal mirror, the flat mirrors, and the pick-up element are arranged,

wherein the device is to be used alternately in a hand held mode and a fixed mode and the housing is completely constructed from a bottom side which is substantially flat for placement of the housing, a top side, a standing rear wall, a standing front wall, and two standing side walls arranged therebetween, and wherein the distance between the standing walls ranges between 1.2 and 2.5 inches, and

wherein a fixed mode scan pattern or a hand mode scan pattern is cast through said standing front wall, both scan patterns being cast through one and the same window in the housing.

52. (New) The device as claimed in claim 51, wherein a resilient holder is arranged around at least a part of the housing.

53. (New) A device for scanning and/or recognizing one or more barcodes, comprising:

a laser light source for transmitting laser light;

a rotatable polygonal mirror for reflecting the transmitted laser light;

a number of fixedly disposed flat mirrors for reflecting laser light;

a pick-up element for picking up laser light scattered by a barcode; and

a compact housing to be hand held in which the laser light source, the polygonal mirror, the flat mirrors, and the pick-up element are arranged,

wherein the housing is completely constructed from a bottom side which is substantially flat for placement of the housing, a top side, a standing rear wall, a standing front wall, and two standing side walls arranged therebetween,

wherein the distance between the standing side walls substantially amounts to 2.4 inches, the distance between the bottom side and the top side substantially amounts to 3.3 inches and the distance between the standing rear wall and the standing front wall substantially amounts to 2.0 inches, and

wherein the scanning is performable through only one window positioned at said standing front wall.